

Fluke 566 and 568 Thermometers

Technical Data

Two-in-one infrared and contact thermometers with an innovative dot matrix display.

Just when you thought advanced IR temperature measurement should be easier! With a straight-forward user interface and soft-key menus, the Fluke 566 and 568 make even complex measurements easy. Quickly navigate and adjust emissivity, start data logging, or turn on and off alarms, with just a few pushes of a button.

With a rugged, easy-to-use, ergonomic design, the Fluke 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.



- Measure -40 °C to 800 °C / -40 °F to 1472 °F (568) or -40 °C to 650 °C / -40 °F to 1202 °F (566)
- Easily access advanced features with the soft-key buttons and graphical display
- Measure smaller objects from further away, with a distance-to-spot ratio of 50:1 (568) or 30:1 (566)
- Compatibility with all standard miniconnector K-type thermocouples allows you to preserve your thermocouple investments
- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Capture up to 99 points (568) or 20 point (566) of data, for downloading and recalling later
- Easily trend and analyze data with included FlukeView® Forms software (568)
- See your data right away without leaving the site, using the USB (568) and your laptop for "Hands-free" datalogging
- Confidently troubleshoot equipment with 1 % measurement accuracy
- Versatile interface with six languages from which to choose
- Two-year warranty

Product specifications

| | 566 | 568 |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Infrared temperature range | -40 °C to 650 °C (-40 °F to 1202 °F) | -40 °C to 800 °C (-40 °F to 1472 °F) |
| Infrared accuracy | < 0 °C (32 °F): ± (1.0 °C (± 2.0 °F) + 0.1%/1 °C or °F); > 0 °C (32 °F): ± 1 % or ± 1.0 °C (± 2.0 °F), whichever is greater | |
| Display resolution | 0.1 °C / 0.1 °F | |
| Infrared spectral response | 8 µm to 14 µm | |
| Infrared response time | < 500 msec | |
| Thermocouple Type-K input temperature range | -270 °C to 1372 °C (-454 °F to 2501 °F) | |
| Thermocouple Type-K input accuracy | -270 °C to -40 °C: ± (1 °C + 0.2 %/1 °C) (-454 °F to -40 °F: ± (2 °F + 0.2 %/1 °F)) -40 °C to 1372 °C: ± 1 % or 1 °C (-40 °F to 2501 °F: ± 1 % or 2 °F), whichever is greater | |
| D:S (distance to measurement spot size) | 30:1 | 50:1 |
| Laser sighting | Single-point laser < 1 mw output Class 2 (II) operation, 630 nm to 670 nm | |
| Minimum spot size | 19 mm (0.75 in) | |
| Emissivity adjustment | By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01 | |
| Data storage with Date/Time stamp | 20 points | 99 points |
| PC Interface and cable | None | USB 2.0 with FlukeView® Forms software |
| Hi/Low alarms | Audible and two-color visual | |
| Min/Max/Avg/Dif | Yes | |
| Display | Dot matrix 98 x 96 pixels with function menus | |
| Backlight | Two levels, normal and extra bright for darker environments | |
| Trigger lock | Yes | |
| Switchable Celsius and Fahrenheit | Yes | |
| Power | 2 AA/LR6 Batteries | 2 AA/LR6 Batteries and USB when used with a PC |
| Battery life | If used continuously: laser and backlight on, 12 hours; laser and backlight off, 100 hours | |
| Operating temperature | 0 °C to 50 °C (32 °F to 122 °F) | |
| Storage temperature | -20 °C to 60 °C (-40 °F to 140 °F) | |
| Bead thermocouple Type-K range | -40 °C to 260 °C (-40 °F to 500 °F) | |
| Bead thermocouple Type-K accuracy | ± 1.1 °C (2.0 °F) from 0 °C to 260 °C (32 °F to 500 °F), typically within 1.1 °C (2.0 °F) from -40 °C to 0 °C (-40 °F to 32 °F) | |

Ordering information

Fluke-566 Infrared thermometer
Fluke-568 Infrared thermometer

Includes: Infrared thermometer with contact thermometer capabilities, FlukeView® Forms software (568 only), USB cable (568 only), K-type thermocouple bead probe, hard carrying case, quick start guide, and users manual.



Fluke. Keeping your world up and running.®

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